CRIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION RECORDS

Numbers 814 to 858

leapy

13.

U. J. Fish Commission Dredging Records. 1880.

Loes. 814-

aug. 18 -

All bearings in this book are magnetice. Air limperatures mere laken by a fas, escent, externometer, supplied by the Thang Dept. and corlected to within 5 of a deg.

It mas placed in the open pilot house,

Trawl

TEMPERATURE RECORD.

Instrument used, Regretti-Jamba.

Current number of observation, 814.

Date, aug. 18. 1880.

Locality, off Block Island. Bearings, Block I, St., n. n. n. 78 h.

18 mules.

Time of day, I P.M.

State of sky, L. c.

Temperature of air, 72. (n.g. 40007.

surface of water, 72.

at depth of 5 fathoms, 710(107.57)(207.49.)

of bottom, 46. Depth, in fathoms, 27/2

Nature of bottom,

Direction of surface current

Force of surface current, S. m.

1/4 mule. Name of vessel, Fish Heave.

To what service attached, U.S. F. lo.

Name and rank of commanding officer, 3. d. Jan dient, U.S. K

Name and position of observer, F. C. Vandlie

Serials laken with 1.3. 42.666.

8-14. REMARKS. Peden terricostata, Jew. Asterias vulfaris deplacterias compla abuscar Cribrella Danquinoleula few Buccinum undalum, abot. Cyprina Islandica, abot. Echinara chrisis perma (for) Ophingly Dha Sarkii, (one) Strongglochubrotus Dr. 76. Jew. Limana ferruginea Lophius piscatorius. Oscudorhombus oblongus. Physis lenis. " Chuss. Raia. Rp. Joances anguellaris. Collies 18- Spinosus. Merlucius bilinearis. Raia erinacea?

Chester Rake Drede

TEMPERATURE RECORD.

Instrument used, Regretti - Zambra Current number of observation, 8 1 5

Date, aug. 18, 1880.

Locality, off Block J.

Bearings, Beock D. LT., n. W. by 2. 1 y miles.

Time of day, 2. / Som; of tide,

State of sky, L.C.

Temperature of air, 72

surface of water, 72. (n.g. 4000 7. at depth of 5 fathoms, 710/107.56, 20, 49.

of bottom, 48 h.3. 42666.

Depth, in fathoms, 29.

Nature of bottom,

Direction of surface or

S. m. Direction of botton

Name of vessel.

To what service attached.

Name and rank of commanding officer,

Name and position of observer,

x. n.g. 42666.

REMARKS.

fine sand very rich

Liparis Sp. Jon O. Connicos Calus. Merlucius bilinearis juv. Dredge

TEMPERATURE RECORD.

Instrument used, Megkelli - Zamba.
Current number of observation, 8/6,
Date, aug. 23.
Locality, Marragansete Bay, Bearings, Brenton's Reaf Lt. She
Bearings, Brenton's Reaf LT. She
E, 3/48, 23/4 miles.
Time of day, / O. 25 au; of tide,
State of sky, elear.
Temperature of air, "\forall."
" surface of water, 69. N.3. 4000
" at depth of fathoms,
" of bottom, 66. 11.3. 4266
Depth, in fathoms, 81/2
Nature of bottom, A
Direction of suchas correct,
Force of surface current,
Direction of bottom current, S. S.
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Name of vessel,

To what service attached,

Name and rank of commanding officer,

REMARKS.

Heure sand mot beignech in life a variet of senace of se

TEMPERATURE RECORD.

Instrument used, Negretti Zamba
Current number of observation,
Date, aug. 23.
Locality, Managansele Bay.
Locality, Ranagansele Bay. Bearings, Brenton's Reef Lt. Ship
8. 1/2 M. 3 miles.
Time of day, // C.M.; of tide,
State of sky, Eleav.
Temperature of air, 72
" surface of water, 68. 11.3. 4000 J.
·· at depth of fathoms,
" of bottom, 63. 7.3.42666.
Depth, in fathoms, / O.
Nature of bottom, Rand.
Direction of surface current,
Force of starface correct,
Direction of bottom current. S. E.
Force of bottom content, /4 mile,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Fami and thick

Same character as Co.T.

Echenaracherin parine, many

in-e Sta

TEMPERATURE RECORD.

Instrument used. Regretti Za Current number of observation, 8/8 Date, aug. 23, 1880. Locality, Narragansett Bar Bearings. Brenton's Reef St. Sk E. 1/2 n. , 31/4 miles.

Time of day, / 1.20 au; of tide,

State of sky, Clear

Temperature of air, 72.

surface of water, 68

at depth of

of hottom. 63

n.3. 4000 7. n.3. 42666.

Depth, in fathoms, 9 1/2

Nature of bottom,

Direction of :

Name of vessel,

To what service attached,

Name and rank of commanding officer,

818 REMARKS.

Dance as Cart. Hephlig, meira Cumacea, abundant

 $\overline{\mathcal{J}}_{t,p}$, \mathcal{A}_{s}

TEMPERATURE RECORD.

Current number of observation.
Current number of observation.
Date, aug. 23, 1880.
Locality, Narzagansece Bay
Locality, Marzagan Lete Bay Bearings, S. Ew Heope Island, S. S.
by E. 1/2 E. 1/2 mile
Time of day, / Ru, ; of tide,
State of sky, Clear.
Temperature of air, 7 4.
" surface of water, 73, 91,3,4000
·· at depth of fathoms,
" of bottom, 70. 9.3.4266
Depth, in fathoms, 6.
Nature of bottom, Med.
Direction of surface coursest, S. S. W.
Force of surface current,
Direction of Hom current, //. J. //.
France 1/4 vil
Name of vessel,

To what service attached,

Name and rank of commanding officer,

819 REMARKS.

Capaqueres Conquear part, Care many me pollicais languares Carea da la carea da c Adelia Forber Extension . I waget : the many Sucara an Camation Cities Laking Realin med, and effr Liberia Cura Equipla. Chackopterus pergan - Lal. Halicien Then stomus arygraps. Vendopleuronecher americanus. dophopsella maculata. Pronofus carolinus Cynoseros asgalis Juv. Engraulis vicealus. Pseudorhombus d'intelles End n.g. 42666, luke protecting containing trater. Protecting lake to bulk, also containing a little water in addition to mercury.

TEMPERATURE RECORD.

A
Instrument used Regreece ganta.
Current number of observation, 0 2 0
Date, aug. 23, 1880.
Lunging. Rangament Bay.
Bearings S. en Hope daland
N. N. E., 1/4 mile.
Time of day, 1.40 Rin; of tide,
State nisky. Clear
Temperature of air, 76.
" surface of water. 72. 1.9. 42666
" at depth of fathoms,
of bottom, 70 11.3. 4000
Depth, in fathoms, 51/2
Nature of bottom,
Direction of surface current, S.S. H.
Force of surface current, 4
Direction of Truebon M. by S.
Proce of instance 1/4 miles
Name of vessel,

To what service attached,

Name and rank of commanding officer,

y 20. REMARKS. Demilar la Cast, but a prest lead of neuro mich denale hoteen ortuelo comme o più Asierla empuas 20/11c. Callenecter trastatu. Lyce hylens Canaleculation Fickgeor Carrea Locy Reacis Eggs Theirenta provenina Holien Linaline Meckelia Rurida. Syngnachus fuscus. Obendoplemorectes americanus Onos Cymbrins from

TEMPERATURE RECORD.

Instrument used. Regrette'-Zambra. Current number of observation. 821.
Current number of observation. \$27.
Date, aug. 23, 1880.
Locality. Harraganser Bay.
Bearings, S. End Heope J., n, by E.
1/2 mile
Time of day, 2. 15 Pu; of tide.
State of sky, Clear
Temperature of air, 78.
" surface of water. 72 h. 3. 4266
at depth of fathoms,
" of horon, 70. 11.3.4007
Depth, in fathoms,
Nature of bottom,
Direction of white current, S, S, 77
Force of surface current, _ 4
Direction of bettom corrent, 5, 77.
France 1/4 mule.
Name of vessel,

To what service attached,

Name and rank of commanding officer,

S 2 / REMARKS.

Nepthys Incita Michelen Lunian

Paia, sp. jur. one spec. Pseudorhombus obloggus. jur.

TEMPERATURE RECORD.

Instrument used, Regreete-Zambra Current number of observation, 822,
Current number of observation, 522,
Date, Quy, 23. 1880.
Mariaganse u Bay
Dute, Que, 23. 1880. Locality. Mariaganze u Bay Bearings, S. en of Hoope Dalance
N. E., 18 mile.
Time of day, 3. Ru, of tide.
State of sky,
Temperature of air, 78.
" surface of water, 71. 913.42666
" at dorth of fothers
" of intom. 70. ng.40007
Depth, in fathoms, 4"/2
Nature of bottom,
Direction of S. S. N.
Force of surface correct,
Direction of bottom carrent,
delanes 1/10 6
Francis interpresentation of the contraction
Name of vessel,

To what service attached,

Name and rank of commanding officer,

ances, beine Sugara Torrenta Conserving to All From Les de antinucula for Prionotus carolinus. Lophopsella maculala. Stenotomus argyrops. Cynoscion regalis juis. Payers termine adapterson.

Dreize TEMPERATURE RECORD.

Instrument used, Negrette - Zamba. Date. aug. 24, 1880. Locality, n. Vof Block V. Bearings, North Light, Block of. N. 1/2 S., 11/2 miles. Time of day. 12, 35 But of ride. State of sky, 6. C. Temperature of sir. 74. surface of water, 65. 11.3, 46400. at depth of 5 fathers. 630 (106, 630 of bottom, 60 n.3.40007. Depth, in fathoms, 151/2 Nature of bottom, Rand,

Direction of 🗪

wind 3, 44 he

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

x 12, 4000

823.

REMARKS.

Prelin termicoplatic lange Lepitable in Competer.

Lep

S Z 学 J/c

TEMPERATURE RECORD.

On
Instrument used, Regretti Zambra,
Current number of observation, 824.
Date aug. 24, 1880.
Bearings, North of Block J. S. M.
Bearings North LT. of Block J. S. M.
1/4 m. , 1 mile.
,
Time of day. 12,50 Rus; of tide,
State of sky. Clear.
Temperature of air, 7 4.
" surface of water, 65. 11.3. 4640
at depth of 5 fathorns. 630 (106, 63?
" of bottom, 67 n.3. 4000 7.
Depth, in fathoms, 13,
Nature of bottom, Faul.
Direction of water, 27.
Force of surface surrent.
o cigi h m
Direction of socion current,
Porce of bottom earrent,
Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

*n.3. 40007.

REMARKS.

dancing they bis of chie Vacian less indeal plans L'and the second of the second d'incomme decention meriphan a arguntas Physis Commis, Per la Propolon marche a marianna Agree 1 to 7 to 6 600 2 to Califer Rain Decing our portate Reiter & recipentate Secure the for the Edingson

TEMPERATURE RECORD.

Instrument used, Regrettei-Jamelras Current number of observation,
Current number of observation,
Date, aug. 24, 1880.
Bearings, M. Sight of Block of h
Bearings, N. Light of Block of h
7. 3/4 Tr., 11/4 miles.
Time of day. 1.30 Ruy : of the.
State of sky, Clear,
Temperature of air, 73.
" surface of water, 67. 113, 46400 at depth of 5 fathoris. 61. 11 3, 400
" at depth of 5 milhours. 61. 7 3,400
of hottom, Go.
Depth, in fathoms. 13 .
Nature of bottom, Rand.
Direction of section correct, 7. S. 7.
Force of surface convent,
Minor Market 17. 17.
in the 1/2 male
Name of vessel,

To what service attached,

Name and rank of commanding officer,

825 REMARKS. Raudi Demilar tilast let Leas in wariet and burne Schinnachnews par , wereig Sharp from Mours. Secratia here. Shilefur Hilly grane Morine to the views Canter i mater. Empaparen Berkhan Rain (Sp) Pacaballa for Serialus, co playerolla marrilata,

Remorphanoncola american Prioriotis garoknus.

Dreage. TEMPERATURE RECORD.

Instrument used. Negretle-Jan Current number of observation. 826. ug. 24, 1880 Locality. Notch of Block. J. Bearings. North Light of Block Islaw M. h. M. 1/2 M. 21/2 miles Time of day, 2, 40 Ru; of tide, State of sky, Clear, Temperature of air, 73. at depth of 5 fathours. 66. 11 3, 46400. of bottom, 5 7. Depth, in fathoms. 22 Nature of bottom. Direction of a S. S. W. Direction of k Name of vessel,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

8 2 6, REMARKS.

2 111. Le recion da l'obranicare i atil TOPINION SECOND of Myster accurata Minor mirright Lowerth Himmen Organia marco copiasa Ep? minde Le Oldminine Dorogia Commence Construction of Capa Stylenge and Color of the second

Blake Traive

TEMPERATURE RECORD.

Instrument used. Regretti- Zan

Current number of observation, 82; Bearings. North Light of Block o. W. n. W. 12 W. 21/2 miles. Time of day, 3. 0 5 Phi, of tide, State of sky, Clear. Temperature of air, surface of water, 67° n.3.46400.

at depth of 5 fathoms. 66. N.3.40007. of bottom. 5 7. Depth, in fathoms. 201/2

Nature of bottom,

Direction of a

Direction of bo

Force of bottom cur

Name of vessel.

To what service attached.

Name and rank of commanding officer,

Ino hauly were made and encluded under This number. The first brought up nothing. the executed but very live. all the I westerrals being contained in the above list. the reason assigned was char a sicky lb. ball mas allached to sud of bag, causing the runners to raise high in the water when the atrain come whom them Ayer to in

2ange

TEMPERATURE RECORD.

Instrument used Regretti - Zemba.
Current number of observation, 828.
Date. Aug. 25, 1880. Locality. Of Block Island.
Locality. Of Block Island.
Bearings North LT. Block J., S. W.
by W. 3/4 W., 21/2 miles.
Time of day, 12, 40 Rig of tide.
State of sky, Atorny.
Temperature of air, 70.
" surface of water, 66. 7.3.4640
" at depth of fathoms,
of bottom, 60. 91.3, 4000
Depth, in fathoms. 15.
Nature of bottom, Aund,
Direction of section current, n. n. E.
(47)
Pride VI Santa Carron.
Distance 110000
Ena of hornound of the contraction
Name of vessel,

To what service attached,

Name and rank of commanding officer,

828, REMARKS.

But very little came up

bandy bottom

behinarachnins parina;

Stereoderma unixemila

birolana?

Rephthy

I male vandy ascidian

(Eugyia pilularis??!)

bew smale oheles.

This was the beginning of a two days trip, the morning opening with fair prospects but a north baste struck we, just about as the above dredge went oven and we were obliged to return to par

TEMPERATURE RECORD.

Instrument and Regretti- Zamba.
Current number of observation. 829
Date Que 27 1880
Locality, Off Mouch of Sakonnet 1. Bearings Cormorant Rock, n. r. Ly
Bearings Cormorant Rock, n. W. Ly
1/4 mile
Time of day, 10,45 au; of tide.
State of sky, Clear,
Temperature of air, $ m{\mathcal{G}} m{\mathcal{J}} ,$
" surface of water. 66, 91,3,42666
" at depth of fathoms,
" of bottom, 65. 13.40007
Depth, in fathoms, 9.
Named Love gravel and stones.
Direction of Julia E.
Force of surface current, 2.
Direction of Internations, 18, by E.
Distance 1/4 mile
Name of vessel,
To what remain attached

Name and rank of commanding officer,

829,
REMARKS.

grand, fine aut coarse. Inearly learners New Mullipore Physica de Leavers. many Acherias Forbicie. Committee . A regue notout 2 survey Glatie filet a aluleata . 1. (Leenel) chilin marmorens. Crebitain francis moriola shootistus. Baisman

Eres que TEMPERATURE RECORD.

Instrument usoi Regretti-Zamba

Current number of observation, \$30,

Dan. aug. 27, 1880.

Locality.

Bearings. West Daland, S. E. Ly E.

1/2 E. , 3/4 mile,

Time of day, //, /5a; of tide,

State of sky, ecar.

Temperature of air, 64,

surface of water, 66,

at depth of fathoms,

of bottom, 65

n.3, 40007.

91.3,42666,

Depth, in fathoms, /0 /2_

Nature of bottom, Law.

Direction of surface current

unisco cumont,

Triff-

n. E. 1/2 E.

Vistance

1/4 mile

Name of vessel,

To what service attached,

Name and rank of commanding officer,

830 REMARKS.

Sand and graval, neckent det algae mos touch dicher Chan Menny items covered with or or harming.

Empararus Bernharder, andhell.

Follow.

Z - S - E TEMPERATURE RECORD.

Instrumer	I How ! No	rgretti-	Zami	ha
Current n	umber of ob	servation.	31.	
Date.	a	24,78.8	, <u>4</u>	2.0
L cality,	north	R End of	Lould	Rever.
Bearings.	S. M.	1/4 m.	3500	lards,
			U	

Time of day, / 2.3 c Rui of tide,

State of sky, Clear,

Temperature of air. 6 8.

surface of water, 71.

at depth of

fathoms,

of bottom, 7/.

ng, 42666, ng, 40007,

Depth, in fathoms, 6,

Nature of bottom, black mud.

Direction of surface current 5. 8

Force of surface current,

Drift 8

Direction of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

REMARKS.

Ablack, or Dark brain, 2011

Ablack, or Dark brain, 2011

Mucula processing, bey abdi

Mulinia lateralis.

Yoldia Limstilla

This same character of

bottom continued through

bottom continued through 834, but the first one en but houses, had the etrongest sincle. The mud scened to become purer or cleaver in character down wires and 835 had no small whatever, although it was a ferreine soft

Instrument used. Regretti o Zambra
Current number of observation. 832
Date. Date. 27, 1880, -
Locality, Sakonnet River,
Bearings. N. End. of Love Island
West, 150 yards,
Time of day, /2. 45 Ru; of tide,
State of sky. Clear,
Temperature of air, 70.
" surface of water, 71, 11.3, 42666, at depth of fathoms,
" of bottom, 71. h. J. 40007.
Depth, in fathoms, 9.
Nature of bottom, Black Mud,
Force of surface current, S. S.
Dreft-
Direction of bottom super. 2 Stance 1/4 under
Francisco proportion //4 will
Name of vessel,
To what service attached,

Name and position of observer,

Name and rank of commanding officer,

832.

REMARKS.

Same as Cari.

Chester Rake Dreste TEMPERATURE RECORD.

Instrument used. Regretti & Zambra Current number of observation, 833. Date, aug. 27. 1880. Loulity Cakonnet River. Bearings. South End of Loues Island 100 yards. Time of day, / Rue, ; of tide, State of sky, Clear Temperature of air, Zo, 113,42666, surface of water. 7/ at depth of of bottom, 7/, Depth, in fathoms, 6/2 Nature of bottom. Direction of surfa Direction of 1-

Name of vessel,

To what service attached.

Name and rank of commanding officer,

833,

REMARKS.

Laure in charactera. (ast.

Chenkin Rake 11

TEMPERATURE RECORD

Instrument used, Reguetti-Zer Current number of observation,

Date. aug. 27. 1880.

Locality. Sakonnet Riv

Bearings. In Clevery's Point

3/4 mile.

Time of day. 1. 3 o Rue of tide.

State of sky, Clear

Temperature of air, 63

ng. 42666. surface of water, 73

at depth of

of bottom, 71.

n.B. 40007.

Depth, in fathoms, //

Nature of bottom,

n. by E.

Name of vessel.

To what service attached,

Name and rank of commanding officer,

834 REMARKS. dance actail anadi no la la a mucharia. The one production is never to being a constant Folder Circulation Cir. Liverty was considered and Liebert & Gordone Canon Calina Calina

Checker North End

TEMPERATURE RECORD.

Instrument used, negretti-zamba Current number of observation. 835 Date, aug. 27, 1880, Locality. Sukonnet Riv Bearings, McCourry's Roins 11/4 miles. Time of day, /. 50 Rue; of tide, State of sky, Clear Temperature of air. 68 2.3,42666. surface of water, 73, at depth of fathoms. n.3.40007. of bottom, 7/. Depth, in fathoms, 31/2_ Nature of bottom. 12 8, &. Direction of surfa Direction of b

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Homes, broken and Scord shells, Cabra Dead, and hur or ken with the sunting bryogen Subiner do authoritate

Crester Raise areign

TEMPERATURE RECORD.

Instrument used, Regretti-Zambra
Current number of observation, 836,
Date, aug. 27, 1880.
Locality clakonnet River.
Bearings Black Point, N. 1/4 n.,
1/2 mile
Time of day, 2. 2 5 Rice; of tide,
State of sky, Clc.
Temperature of air, 66.
surface of water, 71. n.3. 4266
·· at depth of fathoms,
of bottom, 71, 73.4000
Depth, in fathoms, 5.
Nature of bottom, Fand.
Direction of surface current; P. E.
Force of surface correct,
Direction of bottom correction, S. S. N.
Form of Instrument. 1/4 mile

Name of vessel,

To what service attached,

Name and rank of commanding officer,

836 REMARKS.

Same but very betile bollow maderial carrie life. Burney on him and the received the Entereit Car many and a May a win concain hong for of berief and eventure But to your Concination in the Develor , Principal era manita

Empagnice pollection of a comment of the charge

Tracol

TEMPERATURE RECORD.

Instrument used. Regretti 3 Current number of observation. Date, aug. 27, 1880. Locality. Lakonnet Ri Bearings. Black Roins n. W. by M. /2 W. 1/2 mile Time of day, 2. 4 & Rui; of tide, State of sky, Clear Temperature of air, 69 13.42666, surface of water, 7/ at depth of fathoms, of bottom, 71. n.3.40007. Depth, in fathoms, 5 Nature of bottom, 5.5.2 Direction of sur Direction of best Name of vessel,

To what service attached,

Name and rank of commanding officer,

REMARKS.

dibinia emarquala, many Pilings are ocallating young Memorita duplicata reducting Thelies caren, heard Loige Pentie. 2, Empagnin pollicari. Crepitation Popularia Danquia Lurila Asteria, Forselli, Ja hogolabus a so per se s. soft oprocita maculata Egnosein regulistis. Rumeros Noron the Trianancher and Macier Where interes Il 17 a Hours, 11 exercision on one Denicelus, ob Cougher Porce and Campbelling (for pa 671) Rain suchasen? Mentecons nebularios Seleten green green

Instrument used, Regretti Bambra
Current number of observation. 8 3 8,
Date, aug. 27. 1880.
Locality, Hakonnet River.
Bearings. Hood's Castle W. by h
Luile,
Time of day, 3, 15 Rug, of tide,
State of sky, Clear,
Temperature of air, 66,
surface of water. To 7.3. 4266
" at depth of fathoms,
of bottom, 68. 123.4000 7
Depth, in fathoms, 5 /2
Nature of bottom, Auro,
Direction of surface current, P. S. &.
Force of surface current,
Direction of Lattern autron. S. L. E.
Force of bottom convent.
· Name of vessel,
To what service attached,
Name and rank of commanding officer,

838 REMARKS. design quantities of mirelly Museumber decing in some Garage with some of Cariff per the livite Very telle malenal dyester pur canaliculation Pargal lurich (much) LATE speceus o cellate the shall Crepionen Kinun. Echinalnohimus parma, Lettina Carcalientalà Contains prince and, many Chilichens turgique (me) Kain Lillaceam. Recederher bu Dentalus, Ettersteine auggresse

Instrument used. Regretti-3 andra Current number of observation. 839.	
Current number of observation. Q 29.	
Date, ang, 31. 1880.	
Locality. / anagansele bay.	
Bearings. Lumpling 3 17. 17. 12 #	The
do o y ards.	
Time of day, 9.50; of tide,	
State of sky, L.e.	
Temperature of air, 67.	
" surface of water, 67. 11.3.42 6	66
" surface of water, 67. 11.3.42 b	50
" of bottom, 61. n. 3. 40007.	
Depth, in fathoms, 27/2	
Nature of bottom, France	
Direction of wind, M. H. E.	
Force of surface contents, Direction of fortune contents, Direction of fortune contents, Just 11 Force of bottom contents, 1/4 mile.	
Direction of The S. 77.	
Dist " 1/4 mile	
Name of vessel,	
To what service attached,	
Name and rank of commanding officer,	

230

Sand in I feet Ruit tage siantities à familie avil ant altre de anced, nich obelia dicholonie. Cancer boreaction ? yours Bugnes Lurela

The forger carry aling stones This have Thister. Garage autolia

by disable bordelin.

Action for thezia.

Instrument used, Requeter - 3 ambra.
Current number of observation, 84-0.
Date. 249, 31. 1880.
Locality, Marragan ett Bay,
Bearings. Duniplings n. by N. 1/2 Mr.
100 70225.
Time of day, /O. O 5 an; of tide,
State of sky. L.c.
Temperature of air, 67.
" surface of water, 67. (13.42666
2; at depth of 5 fathours. 650 /107, 650
3; at depth of 5 fathous, 65° (107, 65° of bottom, 61 (23, 40007)
Depth, in fathons, 201/2
Nature of bottom, gravel.
Direction of with M. R. E.
Force of surface community 2,
Direction of Lattern derron,
Engage of Landon, Children.
Name of vessel,
To what service attached.

Name and rank of commanding officer,

840

REMARKS.

2 reso

TEMPERATURE RECORD.

	a .
	Instrument used. Reg. relli- Zambra
(Current number of observation, 8 4.
	Date. aug. 31, 1880.
	Bearings. Rhode Island LT., N. E.
	Bearings. Rhode Island LT., n. E.
6	E. 3/4 E., 7/8 mile.
	Time of day, 10. 145 and of tide,
	State of sky, L, C
	Temperature of air, 68.
	" surface of water. 67. (1, 3. 4266)
2	237" at depth of 5 fathours. 67 (104.65°
	surface of water. 67. (h, 3. 4266) at depth of 5 fathous. 67 (104.65° of hottom. 60 (h, 3. 4000)
	Depth, in fathoms, 21,
	Nature of lettern, gravel,
	Direction of with E. M. E.
	Force of surface current, 2.
	Direction of lattern current. S.
	Disti " 1/4 mis
	Name of vessel,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

841.

REMARKS.

mino, & carge + Tor ... Andrew Comment

Instrument used, Regretti-Jandra. Current number of observation. 842.
Current number of observation. 842 .
Date, Queg. 21, 1880.
Bearings. Attack Doynes St., E. M.
Bearings. Atoma St., E. M.
1/2 E., 1/2 mile.
Time of day, //.au, ; of tide,
State of sky, elear.
Temperature of air, 69.
" surface of water. 67. (7.3, 42666
" at depth of fathoms,
" of bottom. 67. 1.3,40007.
Depth, in fathoms, 8,
Nature of hostern. Rand,
Direction of surface correspont, east
Force of surface autrouit, 2.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

842

REMARKS.

Instrument used. Regrecti - Zambra
Current number of observation,
Date, aug, 31. 1880.
Locality. Harragarace Bay
Bearings. M. end of Dyer's Island M.
1/2 E. 3/+ mile
Time of day, / 2 h ; of tide,
State of sky, llow.
Temperature of air, 69,
surface of water. 69 (h.j. 42666)
" at depth of 5 millions. 6 7 (91. 3 4000)
" of bottom, 63
Depth, in fathoms, /4//2
Nature of bottom, Land,
Direction of sufficiently, East,
Force of surface current, 3.
Direction of Lattom current. h,
Brack 14 mile
Name of vessel,
To what service attached,

Name and position of observer,

Name and rank of commanding officer,

843.

REMARKS.

Acheria: Forbetic, ma .. A-mana de la la la como a como de la como dela como de la como dela como de la como de l

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TEMPERATURE RECORD.

Instrument used. Asgratti Zamba Date. aug. 31, 1880, Bearings. M. end of Dyer's J., S. E. 1/2 E. . 14 mile. Time of day, / 2, 30 Ru; of tide, State of sky, Pleas Temperature of air, Zo. Ch.3.42666 surface of water, 69 at depth of 5 fathons, 67. (n, 3.40007. of bottom, 63 Depth, in fathoms, / / 1/2_ Nature of hottom, Direction of Direction of bottom carrent, h. S. M. 1/4 mile.

Name of vessel,

To what service attached,

Name and rank of commanding officer,

REMARKS.

Much Lamenacia, Richter and other sea meels. Frank Frank Humanu amendanis proy Allena francialis yray. men hygis : Ruin the of gradual water and they Source to Experience are in Sont was the free of constitution a superior

Frank

TEMPERATURE RECORD.

Instrument used, Regrecci - Zambra.

Current number of observation,
Date, aug, 31, 1880,
Locality. Raziagan sete Bay.
Bearings. Prodence Light, n. 1/2 77.
3/4 mile
Time of day, / Jime, ; of tide,
State of sky, Plane,
Temperature of air, Ze.
" surface of water. 69. (77.3.4266
" surface of water. 69. (7.3.4266) " at depth of 5 fathoms. 67. (7.3.4000)
of bottom, 64.
Depth, in fathoms, / 4/7
Nature of hottom,
Direction of surface current, 12 8,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

REMARKS.

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Chesta Kake Erein

TEMPERATURE RECORD.

Instrument used. Register-Jambra

Current number of observation. 846.

Date, Aug. 31. 1880.

Locality, Tanagantere Bearings. Purpense dt., N. Try &.

3/4 &. 1/2 miles.

Time of day, 1. 35 Run; of tide.

State of sky, Ccar

Temperature of air, 70.

"
surface of water, 68, 7.3. 42666

at depth of 5 fathoms, 67. (h.3. 4000)

of bottom, 63.

Depth, in fathoms, /41/2

Nature of bottom, gravel
Direction of market current, R. E.

Force of surface current,

Direction of bottom current, & h. E.

Force of bottom correct,

1/4- mice

Name of vessel,

To what service attached,

Name and rank of commanding officer,

846 REMARKS.

must well holes of Danie Arlena Frontecari. Crebrella deceposariones Canach young) Cairiannesa Frimpsoni.

Instrument used. Regretti-Jambra.
Current number of observation. & +7.
Date, Cung, 31. 1886.
Locality. Languagensell Bay.
Bearings. Houly may Rock, n. 1/4 h
/ mile.
Time of day, 2. 15 Ry; of tide,
State of sky, Clair
Temperature of air, 70.
" surface of water. 68. (7.3.42666
" at depth of 5 fathoris, 68. (1.3.4000)
" of bottom, 62, (ng.4005)
Depth, in fathoms, / 2 1/2
Nature of bottom, Man.
Direction of surface course, &.
Force of surface current, 3.
Direction of Internation h.n. E.
Free or lattom chrome. 1/4 mile.
Name of vessel,

To what service attached,

Name and rank of commanding officer,

847.
REMARKS.

The book of hook in large.

Survey to any lee

Among hisports and with

Links of the continues.

Instrument used. Registri- J Current number of observation, Date. Aug, 31, 1880. Imaliny Mariagon sete Ba Bearing, Biskops Rock 1/2 mile Time of day, 3, Pru; of tide. State of sky, Clear. Temperature of air, 69. surface of water. 68, (11.3.42666, at depth of 5 fathous. 68° (10%. 67 of bottom, 62 Depth, in fathoms, 15 1/2 Nature of bottom, Direction of emfac Force of surface Direction of bottom current, Name of vessel,

To what service attached,

Name and rank of commanding officer,

808 REMARKS. May Variety La a other ocknows. Horsame Concuer is and configurations are to the time Carrier L. Carriera A. G. Lead Color of retire Acceptant French Cons rulgaris. 1. ing a Thomas on in the State early raine measurement Precedor hombus oblingus Then chomus acquiripes Connection regation Eduto and about a sol

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Instrument used, agaille - James .
Instrument used, Regrette-Fambra, Correct number of observation. 849.
Date. Clept. 1. 1880.
Bearings. Fet. Dumping M. n. 1/2/
Bearings Fet, Dumpling W. n. 1. 1/2 /
/4 mile.
Time of day. 9. 20 : of tide. Loo.
State of sky, elec.
Temperature of air, 67.
surface of water, 67 (1.3, 42666,
1.7 at death of 5 tathons 670, 104, 660
3: y at depth of 5 fathoms, 67 (107. 66°) of bottom, 63, , n. 3. 4000 7.
or bottom,
Depth, in fathoms, 20.
Nature of bottom,
Direction of mission commerces bareable
Force of surface current,
Direction of battern current, S. 7.
Dist. "
Farmer Continuents with the Committee of
Name of vessel,

To what service attached,

Name and rank of commanding officer,

8 40. REMARKS. Saus graves d'une.

Hattia bactgaire 3.

Festive rea 5

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cette danger in plantification. in annalisi Embogens pollications Factoristation adaptication.

Kake Dredg-TEMPERATURE RECORD.

Instrument used. Regretti- 3 and a Current number of observation, 853.
Current number of observation, 853.
Date. Sept. 1. 1880,
Lording. Harraganzete Bay.
Bearings. F1. Dumpling. 6, 7.
1/2 E., 1/2 mile.
Time of day, 9,40 au; of tide, eld.
State of sky, Elean,
Temperature of air, 67.
" surface of water. 67. (7.3.4266
300 y at depth of 5 fathours. 67 (101. 166.
300 4 at depth of 5 fathours. 67. (101. 66. 67. 67. 67. 66. 66. 67. 67. 67. 66. 67. 67
Depth, in fathoms, / 4//2
Nature of bottom, Pheles.
Direction of suches surrent, East.
Force of surface current, 2.
Direction of bottom current, S.S. Tr,
Reproductions current.
Y

Name of vessel,

To what service attached,

Name and rank of commanding officer,

850 REMARKS.

Land Lange mentister in Land of Conferential in, Sindred a global in

andre Erri TEMPERATURE RECORD

,	LIVII LII/(I OII	L HEOOHD.	
Instrument used	a, Regrett	i-Zan	ina
Current number	r of observation,	00%	
Date, Je	27. 1. 18.	80	

Locality, Marragansett Bay.
Bearings. Bearings. Bearings. Biaver Tail LT., S. N. 1/4 M. 13/4 miles

Time of day, 10, any; of tide, eff.

State of sky, elear.

Temperature of air, 66.

surface of water, 67. (7.3.42666, at depth of 5 fathous. 66° (11. 3. 4000 7. of bottom, 66,

Depth, in fathoms, / 2 1/2

Nature of bottom, 2

Direction of

Name of vessel,

To what service attached,

Name and rank of commanding officer,

REMARKS.

Much Laminaria sandans
Gaves.

Syngnathus fredeur,

Travel

TEMPERATURE RECORD.

Instrument usel. Regietti- 3a. Current number of observation, 852 Date, Jelst, 1, 1880, Bearings. Beaver Tail digit, S.S. M. =/4 m., 2 1/8 mules. Time of day, 10. 35 au; of tide, ebb. State of sky, Clean. Temperature of air, 47. surface of water, 2 at depth of fathoms, of bottom. 66. Depth, in fathoms, 2 1/2 Nature of bottom. Name of vessel, To what service attached,

Name and rank of commanding officer,

REMARKS.

Many dea : 10 de Jamerica de Echinaria Carrier de La compagnation de la carina de la carina de la compagnation de la carina della carina della carina de la carina de la carina de la carina della carin

Fracol. TEMPERATURE RECORD.

Instrument used, Regrette - 3 and -a
Current number of observation, 853
Date, Jept. 1, 1880.
Bearings. Beaver Tail LT, S. M. Ly
Bearings. Beaver Tail LT, S. Tr. Ly
2 miles.
Time of day, 10,50 an; of tide, ebb.
State of sky, Clear.
Temperature of air, 68, 67
" surface of water, 76. 77.3. 4266
" at depth of fathoms,
" of bottom, 67, n. 3. 4000 7.
Depth, in fathoms, 44/2
Nature of bottom,
Direction of surface current, . E 21.
Force of surface current,
Direction of Lottom correct.
Force of bottom our ent, /4 mile.
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Name and position of observer,

Note- Mischannel in Messenie Love.

REMARKS. Lancena Li de Pealei Sophopsela maculata. Prendochombus deneatus. Peudoplemonecte, americanus, denstorm argyrops. Cynoscian regulis Prionotis carolinus Tantogolabra adspersus.

Frank
EMPERATURE RECORD

TEMPERATURE RECORD. Instrument used, Regretti-Zam
Current number of observation, Date Jept. 1, 1880. Bearings, Beaver Fail LT. S. 7. 45. 13/4 miles Time of day, /1.10 au; of tide, ebf. State of sky, elean, Temperature of air, 69. surface of water. 67. (7.3,42666 at depth of fathoms, (n.3.40007. of bottom, 6 7. Depth, in fathoms, Nature of bottom, 5. 6. Direction of # Name of vessel, To what service attached, Name and rank of commanding officer,

Name and position of observer,

mid channel in Mackerel

REMARKS.

Stenotomus argyrops.
Vironomis Carolinus.
Vaionomis Carolinus.
Vaendorhombus renentus.
Tantogolabrus adapensus.
Vaendoplemonecia amendua.
Cophop sella maculata.
Consecia regioni.

Instrument used. Regretti- Fambra)
Instrument used.
Current number of observation.
Date. J. 1. 1880.
Locality. Rallaganist Bay.
Bearings. Beaver Fair at, S. 7
Ly. S., 2 miles,
Time of day. 11. 40 au : of tide. 266.
State of sky, Clear,
Temperature of air, 70,
surface of water. 68. (7.3. 4266
·· at depth of fathoms,
" of bottom, 68. (h, 3. 4000)
Depth, in fathoms, 31/2-
Nature of bottom, 2000,
Direction of sanface current,
Force of surface autrent.
Direction of instrum nament.
Ferce of bottom convent,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

REMARKS.

Raia cri nacca,
Chilichthys turgidus,
Stenotomus argyrops,
Pacudoplemonectes americano
Lophopsetta maentata,
Singnachus fureur.

Kake	Drewas
TEMPERATURE	RECORD.

ne 2 11 - 8 - 6 - 5
Instrument used, Negretti-Zambra
Current number of observation.
Date, Je/21. 1. 1880.
Locality. Nariafunce Way,
Bearings. Bioner Jail dight.
8, W. 1/2 M., 13/8, miles.
Time of day, / 2.05 Reg of tide,
State of sky, Claat,
Temperature of air, 69,
surface of water, 68. (13. 4266)
" at depth of fathoms,
of hottom, 67 (2,3, 4000)
Depth, in fathoms, / / ,
Nature of bottom, france,
Direction of author current
Force of sarface convenience,
Direction of intermediate S, S, &,
Force of bottomerarent.
Name of vessel,
To what service attached,

Name and rank of commanding officer,

856

REMARKS.

Distriction of the bolton of Co.

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Mighthan a little

Rake Dredge TEMPERATURE RECORD

Instrument used, Regrelli-Current number of observation,

Date, Jept. 1. 1880.

Locality, Ranagansette Bay.
Bearings, Beaver Fail di, m.S. M.

3/4 m. 6/10 mile.

Time of day, 12.35 024 of tide,

State of sky. U. C.

Temperature of air, 69,

surface of water, 63 (1.3.42666 at depth of 10 fathoms, 66,5 (1.3.4000)

of bottom, 66,

Depth, in fathoms, 19

Nature of bottom,

Direction of

Direction of bot

1/4 mil

Name of vessel,

To what service attached,

Name and rank of commanding officer,

857. Jacque qua ilette, Namendie 858. Rulle Stelle

Coarse sond brike shell,

7,30 - 67, 7,45 = 67